

# MAINE FARMER AND MECHANIC'S ADVOCATE.

PUBLISHED BY WILLIAM NOYES.

"OUR HOME, OUR COUNTRY, AND OUR BROTHER MAN."

EZEKIEL HOLMES, Editor.

New Series. Vol. I. No. 12.

Winthrop, Maine, Saturday Morning, March 26, 1842.

Whole No. 480.

## Maine Farmer and Mechanic's Advocate,

Is published every Saturday Morning, by

WILLIAM NOYES,

To whom all letters on business must be directed. TERMS.—\$2.00 per annum.—\$2.50 if payment is delayed beyond the year.

Agriculture produces a patriot in the truest acceptation of the word.—Talleyrand.



## MAINE FARMER.

### Scrap from Our Note Book.

(Continued)

Lime is the substance obtained from lime rocks or chalk, by calcination or exposure to strong heat. In this state it is called quick lime. It occurs very abundantly in Nature combined with carbonic acid which is driven off by heat, and it becomes caustic, acrid and burning to the taste. It absorbs water with great avidity, and forms with it an hydrate or a paste, which constitutes the basis of mortars. It has a great affinity for carbonic acid which it attracts from the atmosphere.

Quick lime has also a metallic base, called calcium combined with oxygen in the proportion of 28.09 oxygen and 71.91 calcium.

Lime as it exists in soils which are cultivated is combined with carbonic acid, and is very different in its properties when compared with its pure state. Its specific gravity is 2.0.

Carbonate of Lime, when pulverized, absorbs 0.8 its weight of water, but retains it with much less force than alumine—soils in which lime is the predominant ingredient are called calcareous.

Every soil appropriated to cultivation in general a mixture of silex and alumine, and carbonate of lime. These earths are mingled in the state of gravel or sand of different proportions together with the remains of vegetable and animal matters more or less decomposed.

The other matters which are found by analysis among the earths are not found in sufficient quantities to be classed among the elements of the soil, but when they occur very abundant, as they do in certain places, they render the soil less fit for cultivation. This is the case when there is considerable carbonate of magnesia or oxide of iron.

A mixture of chalk or carbonate of lime, of silex and of alumine form the base of a good soil, and in fact they seem to be the essential ingredients or the base of all fertile soils in every country. According to Bergman one of the best soils of Sweden contained

Silex in a coarse state	30
Silica	26
Alumine	14
Carbonate of Lime	30

100

According to an analysis of Gibert, the best soil in the vicinity of Turin contained

Silex from	77 to 79
Alumine	9 to 14
Carbonate of Lime	5 to 12

100

The analysis of a soil in Tournai, which produced well,

Coarse sand	49
Carbonate of lime	25
Silica	16
Alumine	10

100

We see according to these analyses, and we may consider them as establishing the fact, that every good soil contains a large proportion of sand 19-20 of which is impalpable matter, so excessively divided that it is perfect powder and dust and is perfectly sterile. Manure will correct this defect for a short time; but the amendment is very transitory. A more rational mode of remedying the evil will be to supply what is deficient, viz: to mix it with sand and gravel, which shall give it body and consistency.

We have said that one very obvious object of the soil was, for a place wherein the vegetables could be firmly rooted. What other uses are there, and why must the earths of which it is composed be nearly in the same proportions in order to ensure a good growth of vegetables?

It appears from analysis of vegetables, that the three earths which form the base of the soil passes into the plant which grows upon it. A hundred parts of ash that had been well leached, and consequently disengaged from all their salts, gave on analysis the following proportions.

Silica	Carb. lime.	Alumine.
Ashes of wheat.	48	37
Oats.	68	26
Barley.	69	16
Rye.	63	21
Potato.	4	66
Red Clover.	64	33
	30	30

It is not absolutely necessary that every fertile soil contain the three earths, they may be often composed of the union of only two, and yet be fertile. Silica and alumina or carb. of lime and alumine &c. It is rare however that we find in fertile soils two of them, and two only. But the proportion of the third may be so small that the other two may greatly predominate and give its character to the soil. Hence arises the classification of soils which some have made, into argillaceous, calcareous, siliceous and loams.

Silica and alumina will combine together, but the alumina predominating constitutes a clayey or argillaceous soil. It is a fact pretty well established in agriculture, that when clay or alumina forms one half or more of the soil, it is not very fertile, for in this state it is sufficiently cohesive to form the base of brick and to be used in potteries, especially when the silica it contains is in a minute division.

When the soil contains a considerable proportion of carb. of lime it is called calcareous soils. These soils when the lime is not in too great proportion,

are generally light and porous, and produce excellent crops of grass.

When the lime is united with a considerable portion of alumine, it is called marl or marly soil—when the proportion of alumine is largest, it is called by farmers an argillaceous or greasy marl—when the lime predominates it is called calcareous or meagre marl. These marls are generally found beneath the surface of the earth, at not a very great depth, and they are much used by way of manure for the purpose of ameliorating other soils. When drawn from the earth and presented to the air, it undergoes changes which denote its quality or nature.

A very easy way to determine which predominates, is, to expose it to the action of fire. If the clay is most abundant, it will become hard and ring like a piece of earthen ware. If the lime is most abundant it is converted into a sort of quick lime.

The same quantity of alumine will be more fertile on a declivity where the water can run off easily. But a due mixture of the three earths constitute a good soil in almost any climate, and very strong disproportion as we have observed very materially changes their fertility. These constituent parts of a soil tend continually to a minute disjunction and to become loose and pulverulent.

Continual labor—the action of manures, the effect of frost produce by little and little this extreme division. When these matters are reduced to a state of powder they cease to be productive. The reason why is evident. Water reduces it to a state of mere mud. The heat contracts and binds it up, so that the air cannot have access to it and the roots cannot fulfil their functions. Davy observes that every soil should contain some coarse sand which renders the earth more loose, and facilitates the flow of the superabundant waters.

If we consult the analysis of the less fertile soils, we shall see that the fertility diminishes in proportion as one or the other of the three principle earths predominates, and that it becomes almost entirely barren where there is but one of them found—A beach which contains little else than silex is always barren—so also a clay bank where nothing but alumine is found possesses little or no fertility. A due mixture of the earths is therefore necessary to form a good fertile soil, and it can only vary according to the proportion of the earth which constitutes it, according to the nature of the climate and the species of vegetables which are cultivated.

Davy observes that every soil should contain some coarse sand which renders the earth more loose, and facilitates the flow of the superabundant waters.

Now brother farmers, a word to you. I visited two fairs last fall, and premiums were given at both, on butter that was then decidedly strong. Now, without finding fault with adjudging committees, I think they acted honestly, but from long habit of tasting strong butter, their judgments had become vitiated; let us club together and tell some printer all we know about butter making, and if we can't write quite as slick as some of the M. D.'s or D. D.'s, I guess we can write so that the printer can find it out, and he will knock off the knots if it is worth printing, and if it is not, let him take Editor's liberty with it, and pop it over the table, that is to say into the fire.

J. L.

Sangerville, March 12, 1842.

### Feeding Cattle on Straw.

MR. HOLMES:—I began to house my cattle last fall, soon after frosty nights commenced, and gave them a small foddering of straw, as much as they would eat nearly clean. As the feed failed, I increased the straw by giving it oftener, till I gave it 4 times a day, being careful to give no more than what they would eat. I have kept them on straw only, till to day, and they are in as good flesh, and their hides are as loose as any hay fed stock in this section, that I have seen; and in fact I have challenged any one to produce hay eaters, that look better than my straw eaters. Considering the condition of both in the fall, mine are actually in better flesh than when they came to the barn last fall. One of my stock is a cow 14 or 15 years old, and a young one and two others a year next June. I say I have kept them wholly on straw, for they have not eaten 100 pounds of hay, or a mess of turnips, potatoes or any other provender, since they came to the barn last fall.

We often hear of cattle being kept on straw and a few turnips, and coming out in the spring well. Now is it the careful feeding on good straw, or the few turnips that does the work? Now if good straw, carefully fed to neat stock, (for I would not have it given in wasteful profusion, if in that way they would grow poor on it, and in fact they would grow poor on the best of hay,) will keep them in good flesh 'till the 5th of March, why not longer. If my experiment is correct, and I can see no reason why it is not, as this is the third year I have tried it, it unlocks a mine of wealth to the agricultural class in Maine. For instance, what would it cost me to have bought hay for 4 cattle and kept them thriving till now? for my straw, given with hay, I consider nearly or quite wasted, for unless you scant cattle for hay they will not eat much straw, and in that case will trample it under foot, and look for something more palatable. I will tell you what it is like:—give your children rich plum pudding and sweet cake, say one half enough for every meal and tell them they must make out the rest on cold Indian bannock, and see if they won't cry with clear starvation; but keep them wholly on the bannock with a seasoning of butter, as we season our dry fodder with salt for cattle, and their appetites will be sharp and their cheeks as red as roses.

J. L.

Sangerville, March 5, 1842.

P. S. My straw was about two thirds wheat straw thrashed with a machine, and one third oat and pea straw, well thrashed by hand, and given without cutting.

### Culture of Roots.

MR. HOLMES:—A penny worth of sauce saves a shilling's worth of meat, is an old and true maxim respecting supporting a family. I believe a penny's worth of roots, or what will cost only a penny, will save a shilling's worth of hay, to keep stock of the various kinds on, taking into view the different varieties of roots. Some of your correspondents late have suggested the propriety of Farmers raising more roots for stock. One intimated that we need not cut so much hay, and heat our heads in gathering it in the heat of summer, we had better raise more roots. So say I. I propose to your readers the following problem.—Suppose the Farmers in Maine were to cut much less than their usual quantity of hay, and raise double the quantity of roots heretofore raised, would it not be for their interest? It is hoped that more sugar beets, so called, will be cultivated. As far as I know, they yield well, and are richer or more nourishing for swine, and indeed all kinds of stock than most other roots. Ruta Baga is a fine yeller. Whether the beet will yield as well, I am not certain. In good seasons, Ruta baga, well taken care of, yield 8 or 10 hundred bushels to the acre, or after that rate is about a fair crop. If not quite as rich as some other roots, I still crack up Rutabaga.

There is no doubt but we farmers err much, in not raising more beans, peas, squashes, pumpkins &c. Beans are easily raised; some varieties run little to vines, much to pods, and they do not require very rich soil—they may be planted after the usual spring work is done. Farmers' think of those

things, if you please, if Father did not. Scarcely any thing is so perfect, but it may be improved.

S. W.

### Holding up Milk.

MR. HOLMES:—Considerable has been written in the Farmer, as to the properties of cows, among which many failings have been named. But I have not noticed, a failing which a cow of mine has, viz: that of holding up her milk. It is believed that no other animal has the power, at will, to hold back their milk. But every milk maid knows that a cow can do it at pleasure. Mine did, and I could not divine the cause, until a neighbor informed me that it was on account of changing milkers. That he had a very noble cow, that would always do it when he did not milk her, that when his business called him out of town, he had to be sure not to stay during the night, for if he did, the family would obtain but little milk from her that time. Is there any cure?

S. WOOD.

### Mr. Barton's Answer to Mr. Wood.

DEAR DOCTOR:—In your paper of the 5th instant, I observe that my good and venerable friend, Samuel Wood, Esq., says that I have a *long yarn* in one of your papers about Ruta Baga, that they smell bad, and it is a great job to give them to the cattle, &c. Now Doctor, if my good friend Wood, had not been in so much haste to have made a *short yarn*, he would not have *twisted the wrong way*. I would just say to him, if he would have the goodness to look at my *yarn* again, that he will find the words and sentiments which he thought belong to Doctor Bates and Hon. Judah McClellan, so between him and me, "there is no trouble unless he makes it."

Respectfully yours, ASA BARTON.

Gardner, March 10, 1842.

### Ploughing in green Crops.

MR. HOLMES:—Considerable has been said of late years on ploughing in green crops for manure, but the subject is not exhausted. Some farmers will tell us that oats are best for this purpose; others prefer Buck wheat or India wheat; others prefer green clover, and some have of late advocated the practice of turning under crops of ripe grass. It is to be hoped that there will be a *concertation of effort* among us, and that we may succeed in demonstrating by experiments what kinds of vegetables are preferable for our purpose, and also how profitable the practice of turning under crops for manure may be. It sometimes happens that some of our fields become infested with bad weeds. Do

weonsome of your readers for shrewdness may be lost if your reputation for shrewdness is compromised; indeed, to carry forward the principle of perfect equality like that advocated by some of the fanatics of the French revolution is impossible.—But let the question be asked, is it necessary to degrade the poor, the weak or the illiterate, in order to elevate the condition of the wealthy, the talented or the learned?

J. E. ROLFE.

Rumford, March, 1842.

### Aristocracy again.

MR. HOLMES:—In No. 7 of the current volume of your paper is a communication of mine on the subject of Ornamental farming, princely estates, Aristocracy and Sarcasm, to which I find you have affixed a short note. You say "Do names alter facts? If you hire me to do work for you I serve you, or ought to, to all intents and purposes. Now what's the difference whether you call me servant or hired man?" And you also give us a pleasant anecdote of an adventure of Dick Aimz. Now the fact is, words are nothing as you seem to intimate, farther than we attach ideas to them. If in the custom of language the term servant were to be applied to the chief magistrate of a nation it would sound honorably. But what is the precise definition of the term servant when applied to a laborer? To serve means to be in subjection to the will of another, and the term servant implies one who is so degraded that he is continually subject to the voice of another. Now if all men are "created equal," and have "certain natural, unalienable rights," should the epithet servant in the proper acceptance of that term be applied to a "freeman," whose condition in life compels him to labor upon American soil to obtain a livelihood? I should take pride speaking of my hired man, but if I were compelled to call him servant it would rather set my nerves on fire. I am willing that the rich, the talented and the great, shall enjoy all their acquisitions; indeed, to carry forward the principle of perfect equality like that advocated by some of the fanatics of the French revolution is impossible.—But let the question be asked, is it necessary to degrade the poor, the weak or the illiterate, in order to elevate the condition of the wealthy, the talented or the learned?

J. E. ROLFE.

Rumford, March, 1842.

### Note.—Well friend, have it your own way.

One half the disputes in the world are about the use of which the parties often make a distinction without a difference.

ED.

### How to get rid of a School Teacher.

not been able with your utmost exertions to obtain the signatures of more than one-fifth of the legal voters of the District, you may just state that more would have signed it if they had had pen and ink. You never need present this "petition" to the teacher—he will probably hear of it.

If the Committee will not now decide to dismiss the teacher without an investigation, and he requests this, you may after the close of some evening meeting leave the school house unlocked, so that the fire place may be torn down or injured. This will probably stop the school for a while, and perhaps drive the teacher away; and the committee may decide that under existing circumstances the school cannot be profitable to the district, according to Section 41, Chap. 17, of the Revised Statute.

You may thus, reader, get rid of a school teacher who is objectionable to you. The glory and honor will be your own; and you and your children after you may reap the reward. PROBATUS EST.

## MECHANIC'S ADVOCATE.

An intelligent class can scarce ever be, as a class, vicious, never, as a class, indolent. The new world of ideas; the new views of the relations of things; the new discoveries of the physical properties and mechanical powers disclosed in the well informed mind present attractions, which unless the character is deeply sunk, are sufficient to counterbalance the taste for frivolous or corrupt pleasures.—Everett.

### The Lever.

Mr. HOLMES.—Perhaps some of your readers will think, if not at the first glance at my caption, what need have we of a lecture on this subject? we have used a lever almost every day, and know all about it. You know more than many college learned men I have seen, who were accounted almost prodigies of learning. I have not unfrequently, while graduating a common steelyard beam, in the presence of such men, been asked such questions as these, does it require as much space on the beam at one end as the other to weigh, or in other words to balance a pound on the hook, as it does at the other? and it was not long, since I was mentioning this circumstance to an intelligent mechanic in his profession, and stating the lever principle as illustrated in the common steelyard, who immediately inquired if a poise weighing two pounds would balance just twice as much on the hooks as one that weighed just one pound. I mention these facts as an apology for introducing a lecture on this subject at this time.

I hold a knowledge of the mechanical principles to be very important to farmers and mechanics, both as it might and undoubtedly would be, if duly considered and faithfully applied; and scarcely less so to the farmer than to the mechanic. I am therefore glad the mechanical department has been introduced into the Farmer, and as much for the farmer's sake as for the mechanic.

To illustrate the importance of a correct and thorough knowledge of these principles to each class of productive laborers, I will select one example from each. Suppose the mechanic to be a printer, the printer of the Maine Farmer if you please. We will allow him to print fifteen hundred papers a week on both sides, or three thousand applications of the lever principle a week, in this branch of his business. But this is but a beginning of the application of this principle with him, for almost surely then he must have a lever, and a long one, upon which he can print a few hundred copies at a time, and a greater or less extent. Every time he bites any hard substance and moves it with his tongue nearer the socket of the jaw, and nearer the motive power, he takes advantage of the lever principle to crack it with greater ease.

Again with respect to the farmer; we will suppose him to be pitching hay. His pitchfork handle is a lever, and he applies the principle every time that he takes a heavy forkful of hay. In that case he instantly places his feet as far apart as he can as a brace to sustain him in raising the extra weight. This is one application of the principle. He then places his hands as far apart as the extent of native power in his arms will enable him to; and the farther he can do this, other things being equal, the greater weight of hay he can raise. This is one application of the principle. By throwing his body to the right and placing himself in a position to bear harder with his right hand while he raises his left, he makes a third case of the lever principle, in raising one forkful of hay.

These examples will suffice to show the extent to which this principle applies.

For introducing the principle on which the lever acts, I will allude again to the steelyard beam. One of the gudgeons on which the outside hook is attached is unavoidably so placed that one edge is above and the other below a line drawn the whole length of the steelyard, and exactly in the middle of the beam. This is done so that one hook suffices for weighing on both sides. Besides this the edges of the gudgeons on which the different hooks bear are not exactly equidistant on the different sides of the steelyards. This may occasion some uncertainty on experimenting with the common steelyard beam. But suppose the edges of the gudgeons to be exactly in a line with the middle of the beams, and the edges of the gudgeons on which the different hooks are suspended to be exactly one inch apart on both sides of the beam, and as sharp as possible, then, after you have hung on a weight sufficient to balance the weight of the beam, you will find, if your poise weighs exactly one pound, that every inch you move the poise from the hooks over the beam, it will require one pound more on the proper hook to balance it.

Now suppose you apply this to pitching hay on the beam on a high scaffold. You are compelled to use a fork handle three times as long as you do in loading in the field. Every inch you add to the length of your fork handle you subject yourself to a loss of power. Not only so, but you lose the advantage you gained by throwing the body to the right in the first effort, as in that process the body acquired a momentum which with a short fork handle probably lasted until the hay arrived so near a perpendicular position it was no longer needed. But with the long handle, the rising hay would describe so much larger circle, the force acquired by this momentum would be expended before the hay approximated to a perpendicular position, and must then be raised by muscular exertion alone, with the disadvantage of lifting three or four pounds to raise one.

This lecture is designed, so far as respects the farmer, as preparatory to the description of certain barns and appendages, which I have in view to make hereafter.

J. H. J.  
Peru Feb. 24, 1842.

## Importance of Science to the Mechanic.

(Continued.)

Here, then, is the way in which you can make time for the pursuit of knowledge. It is by gathering up the fragments, that nothing is lost; by hoarding them with a frugal care, or rather by spreading them with a provident liberality, in laying up stores of useful science, which, at some future day, will repay you a hundred-fold. Consider, for a moment, what those fragments amount to, in a year. It will be admitted, I presume, that, after meeting all the claims of your business, your family, your health, and your religion, you can still save, out of every day, in "odd ends" of time, nearly, if not quite, two hours—which is about one-eighth of all the hours not spent in sleep. Thus, *one-eighth of the whole of life* may be devoted to intellectual improvement; amounting (should a man live to the age of three score) to almost eight entire years. And is this all? Far from it. These brief intervals for study, recurring each day, and several times a day, will, if improved, supply constant materials for interesting thought, during your hours of labor; so that not only may knowledge be acquired, while you are poring over books, but that knowledge can be digested and incorporated with the very substance of the mind, while you are at work; may actually be amplified and enriched by the new applications and illustrations which will be suggested by your pursuits, or by intercourse with others.

And to this, it is observed, the present state of the arts is eminently conducive.—*This division of labor*, which is so often adverted to, as one of the distinguishing features of modern industry, and which has found its way into every kind of mechanical labor, is not more favorable to the production and perfecting of material fabrics, than it is, when properly improved, to the cultivation and elevation of the human mind. It is often objected to such division, that, by simplifying labor, and superseding, in consequence, much of the thought and care formerly necessary, it tends to degrade the artisan into a mere machine. And so it does, if the artisan chooses to be degraded; chooses to spend the leisure, thus given him, in a state of mere mental vacancy. But I imagine that they whose brains are so constituted that they would be intoxicated with shallow draughts, would hardly be sobered again by following the poet's direction, and "drinking deeply." A vain mind will be vain of its learning, whether it be much or little, just as it will be vain of any other possession. It should be considered, too, that a man's acquirements will never inspire vanity, except when they serve to elevate him above his associates. If we proposed to instruct only a few mechanics; to institute, in this respect, a distinction between them; we might, perhaps, awaken their pride. But our wish is to place all, in this respect, on the same level; to make knowledge perfectly universal, to have it considered among the necessities of life; so that a young man shall no more think of growing old without it, than without clothes or food, and shall as soon boast that he has raiment or a roof to cover him, as that he has that which is but the raiment and the shelter of his nobler part.

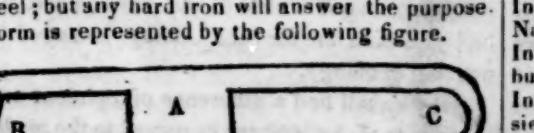
And with respect to their business, is it true that the knowledge which we exhort young mechanics to acquire, will *disqualify* them for it, or make it the object of their contempt? The simple purpose of that knowledge is, to awaken, inform, and invigorate, the mental faculties; and those faculties are the very means by which they are to transact business, and do all their ordinary duties. Does walking, in which you use precisely the same bones, tendons, and muscles, as in running, disqualify you for running? Or does eating food, by which you apply to the several parts of your system a healthy stimulus and nourishment, incapacitate those parts from performing their appropriate functions? As little, then, will studies which tend to enlighten and strengthen the mind, serve to incapacitate that mind for the discharge of its accustomed and proper vocation.

While advertizing to this objection, however, I cannot deny that an error prevails among young men themselves, which lends it some color. When they first conceive the desire for knowledge, they are too ready to imagine that their usual pursuits afford no adequate opportunity for indulging it; and that, even were it otherwise, still there is not to be found, in such pursuits, the requisite scope for the application of learning, or the exercise of talent. Hence, the disposition, so generally evinced by young men who have become attached to study, to abandon agricultural and mechanical employments, and to embrace what are usually termed the learned professions. This disposition I would by no means condemn, indiscriminately. There are cases, doubtless, in which a solemn sense of duty promotes the step; and the church of Christ, or the bar, or the medical faculty, gain by it a rich accession of talent and zeal. But a mechanic or farmer, not less than other men, has occasion for the exercise of the most gifted and cultivated powers. He is not merely a mechanic, who is to supply the wants of his customers and accumulate wealth. He is a parent, who is to train up his children to excellence, and who needs, for this task, the most varied and thorough knowledge. He is a citizen, having important civil duties, all of which require knowledge, and in the discharge of which, he, of all men, may exercise, if he have talent, a commanding and salutary influence. He is, above all, a man, having affections to be chastened and refined; a taste, to be cultivated; a mental and moral vision, to be enlarged; and a soul, to be fitted, by the exercise of holy thought, for honor and immortality.

To be continued.

### A GRAFTING KNIFE AND CHISEL.

MESRS. EDITORS—I send you a description and drawing of an instrument, made and used by my brother last spring when grafting. It is a small thing, but nevertheless very convenient. I don't know where it originated. It would be best made of steel; but any hard iron will answer the purpose. Its form is represented by the following figure.



The part marked A should be made 2 inches or more in length, with a sharp edge. It is used for splitting the stock after it is sawed off and pared. The edge should be made with a slight curve, as in the cut, that the bark, when splitting, may be cut first. The wedge on the end marked B, is used for opening the stock to receive the cions. The end mark C, is made in the form of a hook, that it may be hung on the twigs of the tree while sawing and paring the stock.—*Albany Cultivator.*  
R. NORTH, JR.

THE MECHANIC.

The following beautiful article is from "The Carpenter of Rouen," a popular play:

"The mechanic, sir, is God's nobleman. What have mechanics not done? Have they not opened the secret chambers of the mighty deep, and extracted its treasures and made the raging billows their highway, on which they ride as on a tame steed? Are not the elements of fire and water chained to

the crank, and at the mechanic's bidding compelled to turn it? Have not mechanics opened the bowels of the earth, and made the produce contribute to their wants? The forked lightning is their plaything, and they ride triumphantly on the wings of the mighty winds. To the wise they are floodgates of knowledge, and kings and queens are decorated with their handy works. He who made the Universe, was a great mechanician."

### List of Letters Patents

Granted during the year 1841, with the names of inventors and place of residence.

#### CLASS I.—AGRICULTURE.

In Bee-hives, Constant Webb Wallingford, Ct.  
In Bee-hives, James Le Paton Chandlerville, O.  
In Bee-hives, John M. Weeks Salisbury, Vt.  
In Bee-hives, Hiram P. Pitts Winthrop, Me.  
In Churn, Thomas Pierce Hartwick, N. Y.  
In Churn, double dasher, Enos Mitchell Pittston, Me.

In Corn-sheller, John A. Whitford Saratoga Springs, N. Y.

In Corn-sheller, Charles Willis Chelsea, Mass.

In Corn-sheller, Nicholas Goldsbrough Easton, Md.

In Corn-sheller, Peirson Reading Batavia, O.

In Cultivator, called the revolving, George Whitlock Crown Point, N. Y.

In Cultivator—see Plough.

In Hulling & cleaning clover seed, William C. Grimes York, Pa.

In Hulling rice and other grains, Webster Herrick Northampton, Mass.

In Mowing, cutting, and gathering flax, hemp, &c., Richard M. Couch Lumberville, N. J.

In Mowing, harvesting grain, Alfred Churchill Geneva, Ill.

In Mowing, harvesting machines, cutting, threshing, and winnowing grain, Damon A. Church Friendship, N. Y.

In Mowing, scythes, fastening the thole upon the snath, S. W. Fox and Artesis Ferry Bernardstown, Mass.

In Mowing, scythe, securing upon the snath, and fastening the nib to the same, Silas Lamson Shelburne Falls, Mass.

In Mowing, the set of the same, Marshall Mims and Seaborn J. Mimes Starkville, Miss.

In Plough, attaching mould board and sheath, &c., by means of rivets, Benjamin F. Fewell Springfield, Ill.

In Plough, cast iron, Reuben McMillen Middlebury, Vt.

In Plough, combined with a cultivator and planter for ploughing at one operation, William H. Rider, Belleville, Ill. assignee of Justus Rider Woodburn, Ill.

In Plough, construction of David Prouty and John Meers Dorchester, Mass.

In Plough, manufacturing—see Class 14.

In Plough, wrought iron, Joseph and Henry F. Cowellwell Cynthia, Ky.

In Seeding, planting corn and other seeds, Ezra L. Miller Brooklyn, N. Y.

In Seeding, planting cotton seed, R. S. Thomas Bostonwick, S. C.

In Seeding, planting machines, &c., Joseph Jones Newton, N. J.

In Seeding, seed drill or corn planter, Calvin Olds Marlborough, Vt.

In Seeding, seed planters, Moses Pennock and Samuel Pennock East Marlborough, Pa.

In Seeding, tilling and planting at the same operation, called the cylindrical tiller and planter, John Schermahorn Carroll Co., Ia. and Rufus Porter New York, N. Y.

In Smut machine, Wm. B. Palmer Rochester, N. Y.

In Smut machine, James Cappock Mount Holly, N. J.

In Smut machine, Jacob Demuth & Ben. Bourne Lancaster, Pa. and Levi Beck Lampeter, Pa.

In Smut machine, Charles D. Childs York, N. Y.

In Smut machine, Henry A. Buck Fredonia, N. Y.

In Smut machine, Thomas R. Bailey Weirbridge, Vt. and Ezra Rich Shoreham, Vt.

In Smut machine, Lewis Greene Tiffin, Seneca, O.

In Smut machine, David Baldwin Whitehill, N. Y.

In Smut machine, cleaning grain, &c., Samuel Bentz Boonsboro, Md.

In Smut machine, cleaning grain, Jonas Nolt West Philadelphia, Pa.

In Smut machine, cleaning grain, &c., John D. Beers Philadelphia, Pa.

In Smut machine, cleaning and separating grain, &c., from grain, Joseph Heygel Salisbury, Pa.

In Smut machine, cleaning and winnowing grain Zalmon Rice Lyons, N. Y.

In Straw-cutters, John B. King Athens, Tenn.

In Thrashing grain machines, Ashley Townsend Le Roy, N. Y.

In Thrashing machine—see Mowing.

In Winnowing grain, fanning mills, David Phillips Georgetown, Pa. and Asa Jackson Franklin Mills, Va.

C. CLASS 2.—METALLURGY.

And manufacture of metals and instruments therof.

In Door, fastening on the inside, instrument for Benjamin H. Green Princeton, N. J.

In Door fasteners, mortise latch, Leonard Foster Boston, Mass.

In Door spring, Samuel Sawyer Boston, Mass.

In Fervid of canes, &c., bottom end of, constructing, Jonathan Ball Buffalo, N. Y.

In Files, cutting, Levi Anderson Kensington, Philad., Pa.

In Forges, blacksmith, bellows attached to hearth, Charles P. Smith Rochester, N. Y.

In Forges and furnaces, water backs for William McEvoy, Norristown, Pa.

In Furnaces, blast, Stephen Chubbuck and Jediah Briggs Wareham, Mass.

In Furnaces, combination of, for manufacturing wrought iron directly from the ore, Claude S. Quilliod Roundton, N. Y.

In Furnaces, hot air—see Class 5.

In Furnaces, puddling, (reissue) Thomas Cooper New York

In Gold, separating from its ores, apparatus employed for Thomas Seay Columbia, Ga.

In Hearth, blacksmith or forge Joseph Lambek Middlefield, Pa.

In Hinges, butt, &c., casting of iron, brass, &c., William H. Carr, assignee of Thomas Shepherd Philadelphia, Pa.

In Hinges, casting on to their axis, Samuel Wilkes Darlington, Great Britain.

In Iron ores, art of smelting, and in certain furnaces applicable thereto, Charles Sanderson Sheffield, England

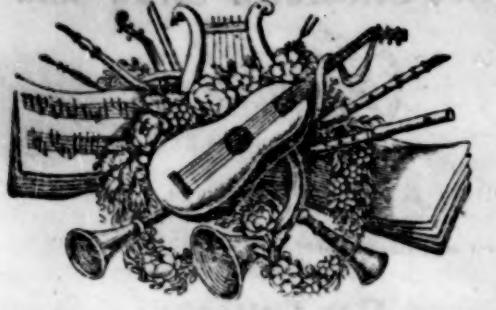
In Keyhole of door and other locks, closing and opening, David Evans Philadelphia, Pa.

In Knobs, door, of clay, &c., see Class 15.

In Knobs, doors, knobs of glass, attachment necks, &c., to, John G. Hatchess John A. Davisport New Haven, Ct. and John A. Quincy New York.

In Latch, door, James M.





## POETRY.

Original.

### THOUGHTS IN SICKNESS.

And here I lie, sick, sad, and solitary,  
While the weary hours pass gloomily away,  
Day glides on day, week on week, and bring small  
comfort.

I lie and dose in weariness extreme,  
Save when some sharp pain brings quick agony,  
The dim forms of those, who ever wait on me  
Move with care and consciousness around the room,

And sundry friends, close gathered in a corner,  
Converse with whisperings, which, in my weak  
ears

Sound like those, which should come from spirits  
dare,

Shut up in gloomy prisons or most horrid caves.  
Ever and anon they cast their doubtful eyes,  
With faces sad and nod quite ominous

With foreboding fear, upon the sick man's couch,  
And many a "caller in" will come and sit

For hours around the bed, and watch the tide  
Of life, as it moves feebly through my veins,

Uncertain whether to fall away forever,  
Or quick returning, flow to better health.

At last they'll rise, and going from my room  
Will whisper in the ears of my dear friends

Such words of fear about my case, that they will  
Almost drive away the solace, which reason calms.

Has long afforded them in my fell sickness.  
And then the Doctor comes to see his patient;

Examines well with visage long his fluttering  
pulse;

Calls to the nurse and gives his nice directions;  
Then turning to his store with knowing look  
Deals out his dreadful medicine, and "goes his  
way."

Medicine, which, though my taste is well benumbed  
Gives such a sense of loathing, that acute  
Imagination can scarcely conjure up  
A thing with which the mind may form comparison.  
These ills be some of those, which hang around  
me.

And more, what boots it to be all worn down  
By fierce disease to a mere skeleton?

To pass whole days and nights so wearisome,  
And learn the sad reality of pain?

Full well we know one will of sympathy

Obtain small share in all the country round.  
It is true, that every one will know it;

And why? because it is a custom old

For all to tell the news in all directions.

The people meet together, and 'tis said

That such an one is sick; and some one asks

"What is the ail, that thus afflicts him sadly?"

The answer made, nought more is said, or thought

About it. And soon lov'd politices come on,

Or other subjects of an equal merit.

To engross their time and strict attention.

As men must conversation make, whenever they  
meet

Again they may inquire the sick man's health.

The minds of men are not inclined to hold

A fixed attention on scenes of human woe.

So we should always give ourselves the solace

To believe, the Power Supreme above

Will not afflict us more than we can bear,

And he will make it for our highest good.

Aye, full many a scheme of happiness

Have I planned, and my whole course of labor,

For many a year to come, is well laid out.

And now I feel it hard (as men are wont

To do) to have my plans so much deranged,

While youthful vigor fills my every vein,

And even moves the mind to action firm;

While that glad buoyancy to youth so common,

Leads me all things to hope, all things to do;

While the love of praise, and high ambition

Points out the path of glory and renown;

While glad the balmy morn of life beams forth

From brightening skies deep blushing in the East,

And every scene is made so fair and bright

By soft imagination's aid adored.

But hope's the anchor and the buoy that keeps

The soul from founders in darkness and

In gloom among the rocks of gulf despair.

When youth's bright plans, the first and best are

crushed,

And young hearts bleed with sorrow well weighed

down;

When man's proud schemes are leveled with the

ground;

And he might long bemoan his many woes,

When fast the ills of age, sad, dreary age

Overtakes and fills the hoary man with grief;

And when disease is near with direful power,

And even now its withering grasp we feel;

Then hope is near, that angel comforter

From heaven sent to soothe our numerous woes.

Man will forever hope; and when he's met

By bitter disappointment, he'll still hope on.

And when "this mortal coil we shuffle off,"

Kind hope will near us stand and point to heaven.

EREBUS.

Turning on, Feb. 1, 1842.

## MISCELLANEOUS.

From the Philadelphia Saturday Courier.

### Choosing a Wife.

A DOMESTIC TALE.—BY MRS. M. ST. LEON LOUD.

PART I.

There was nothing to attract particular notice in the outward appearance of a respectable three story dwelling, which occupied a long row, exactly similar, in one of the best streets of Philadelphia, except that the basement, or office-door, bore the name of Dr. Wallace, thereby intimating to the passer-by and by implication, the rank of its occupant. The steps were scrupulously clean, the brass around the door glittered in the sunlight like burnished gold, while the bowed shutters, tied together with gay ribbons, fluttered gracefully in the breeze, forced upon the mind of the weary travellers on the burning, dusty pavement, a keen perception of the delicious coolness that reigned within. Taking it for granted that the parlours were furnished in a style

suitied to the position of Dr. Wallace, to say nothing of his actual circumstances, that the centre-table boasted the usual quantity of bijouterie and annuals; that the piano occupied its proper station, and a vase of rare flowers filled the room with oriental fragrance, we will ascend to a large apartment in the second story, denominated the nursery, but in fact, the common sitting and eating room of the family. A scene of more "admired disorder" could scarcely be imagined than this room presented, for the unrestrained rompings of seven children, from fourteen years old to the infant in the cradle, had displaced every article in their power to move or overturn. The furniture, scanty and plain in the extreme bore indubitable evidence of long and severe usage, while through an open door might be seen a small, inconvenient, dimly lighted chamber, the sleeping room of Mrs. Wallace and at least three of the youngest children. The whole house was but a counterpart of hundreds, in which no expense is spared to render the parlours or show rooms, handsome and elegant, while that part of the house where the mother of the family passes the greater part of her life, is left cheerless, miserably furnished, and de-stitute of the thousand little comforts so necessary to alleviate the hours of toil, pain and weariness, which fall to her lot. Let him who holds the purse strings see to it, that there is an equal distribution of the conveniences of life throughout his house, and if the pride of a few suffers, the comfort of many will be greatly enhanced.

Once more, and without a murmur, Mrs. Wallace laid by her now almost hopeless task, and consigning the poor baby to the tender mercies of half a dozen rude children, the long, bright, beautiful afternoon which her daughter passed abroad, in the midst of mirth and folly, was spent by the weary mother in the precincts of a small, dim kitchen, in the heated, unwholesome atmosphere of a coal stove, preparing a supper, the expense and time of which, necessarily detracted from the home comforts of the rest of her family.

Mrs. Wallace sometimes felt that she had spent the best years of her life in rearing a child who now showed her no gratitude, who was unwilling to assist her by sharing her labors, and who preferred her own gratification to any other object. And how had she trained that daughter? How had she fulfilled the high responsibilities of a mother? Mrs. Wallace, although what the world calls a pattern-woman, a thorough house-keeper, prudent, industrious, and an oracle in the common affairs of life, yet in points of the most vital importance, was weak and ill-judging. Mary was her first-born, and her excessive maternal fondness, deepened by the loss of several succeeding children, displayed itself in the most unlimited indulgence towards its object. Her childhood, that period when the habit seeds of a life-time are sown, was allowed to pass in perfect idleness, until she was old enough to be transplanted into the board of a fashionable boarding school, where she remained four years. When she returned, a tall, graceful, accomplished, and very handsome girl, Mrs. Wallace thought her too gentle and lady-like to assist in any of the domestic employments in which she herself was constantly engaged. The walls were hung with landscapes in oil, flowers in water-colors, and India-ink drawings; superlative vases of shell-work graced the mantels, and lampstands of glowing wrosted decorated the centre-table; yet was Mary Wallace, at the age of eighteen, in otter and profound ignorance of all useful and important knowledge, and knew no more of the ingredient composing the roll she ate for breakfast, than the butterfly of the nature and qualities of the flower from which he sips his honied repast. Her only fondness for light reading, which her mother had taken no pains to counteract, had deepened while at school into a confirmed passion for works of fiction, from whose glowing pages she drew such exaggerated pictures of human life, as wholly unfitted her for its stern realities. Whole days were spent in devouring with the avidity of a craving appetite, volume after volume of the most exciting kind, and after weeping herself to sleep at midnight over the broken heart, and blighted hopes of the lover-heroin, she would awake late the next morning, wretched and listless, to renew the same course, unless company at home or amusements abroad, stimulated her to call into exercise her engaging manners and powers of conversation, which were charily displayed before the mere household circle.

"Now," thought she, "I shall have an hour to sew before I go to the kitchen to prepare dinner;" but at that moment the door opened and a young lady of eighteen, looking pale and spiritless, her hair tucked carelessly behind her ears, and a faded calico wrapper hanging loosely from her shoulders. "Ma," she said in a faint voice, "is my breakfast ready? I am so hungry." "Yes, my dear," replied Mrs. Wallace, not at all alarmed by her daughter's looks, having seen the same thing nearly every morning for two years. "I told Ann to keep it on the stove—ring the bell, and she will bring it up."

"Ah! Thomy, ring the bell, do," said Miss Wallace, who sunk into an easy chair, and felt herself quite unequal to the task of rising, and the curly headed urchin who was peeping through the door, glad of a legitimate excuse for making a noise, rang the bell violently, the baby woke up screaming, and Mrs. Wallace, with a sigh, laid by her work, and endeavoured to sooth it once more into slumber.

A half-grown girl, who had been toiling like a slave since daylight, brought in the breakfast of the young lady who had risen at ten, and half an hour was spent over the half cold coffee and wholly cold toast, which might have been enjoyed in their freshness, had she risen at the proper hour.

"Now, Mary," said Mrs. Wallace, but in a tone that plainly showed she did not expect the request would be complied with, "I wish you would mend these fine stockings of yours—there are six pair and all need repairing."

"Oh, ma, I hate darning, you will do them

so much better than I can; besides, I want to go out this morning."

"Go out, Mary," said her mother, "why

you was out nearly all day yesterday."

"But," responded Mary, "I promised Mr. Lennard to go with a small party to the Museum this evening, and I must have a scarf

and some new gloves."

"I fear, then, you will be disappointed,"

said Mrs. Wallace, sorrowfully. "I have

but the sum of three dollars, and shall need it on Monday; the wash-woman has asked for it several times already."

"Oh, ask pa for more when Monday comes," replied Mary, with an indifference

of manner, which was felt by her mother.

Mrs. Wallace sighed deeply, and many troublous thoughts passed through her mind ere she replied. Her husband although a skilful physician, had so many equally skilful competitors, that but a limited share of practice fell to him. Never was Philadelphia so healthy, and of those whose misfortunes ought to have contributed to the good fortune of Dr. Wallace, few felt sufficient gratitude for the boon of life to pay for it. Their family was large and expensive—yet they must keep up appearance—"Mary's prospects depend upon it," said Mrs. Wallace; "she must dress well or she cannot go into society. Mr. Lennard—"here her countenance brightened, and taking out the money, she gave it to Mary.

Mary, escorted by Mr. Lennard, and accompanied by a few others, returned at an early hour in the evening. The parlours were brilliantly lighted—every thing was arranged to produce the best effect; and as the occasion was one of the highest importance—it being the first time that Mr. Stanley Lennard had taken a meal at the house—the culinary skill of Mrs. Wallace, though with slender means, had accomplished wonders. The evidence of good taste, which the table displayed, were not lost on the person they were intended to impress, nor did the well-timed hints of Mrs. Wallace, that Mary was the moving cause in all household affairs, fail to produce their desired effect. Never did the Roman epicure feast on his rare and costly dish of ostrich's tongues with delight more exquisite than did Stanley on the cakes of home-manufacture, sweetmeats, compounded doubtless by the same fair hands which now dispensed the most fragrant tea and delicious coffee, together with the various etiennes of a modern tea-table. Music and conversation succeeded, and that evening completed Mary's conquest over the heart of Stanley Lennard. The following letter, written the next morning to his partner in business, will show how just an estimate he had formed of her character, whom he had chosen from all others to be his "help-meet."

"Dear Frank—You will think me sadly negligent, but positively for the last two weeks I have not found a moment to devote to writing—Business first and pleasure afterwards, according to the maxim of my good old uncle. My business, as you know, was very pressing, and my pleasure, as you do not know, has been so absorbing that 'time or fairy wings has flown.' I have purchased a large quantity of goods on the best terms. I have remembered and executed the thousand old maidish—I beg pardon—old bachelor commissions which you imposed on my good nature, and now as a reward for my labour, I have a favour to beg of you. Will you purchase for me the house we have often ad-

vised?

That young lady was soon on her way to Second street, where two hours were spent in searching for handsome, cheap articles.

Dropping in at a friend's, on her return, she borrowed two or three volumes of the latest novels, and arrived at home just as the family were sitting down to a dinner so frugal—while her mother looked so tired, and her father so care-worn that even the selfish heart of Mary Wallace was touched, and she could not help feeling that the money she had just spent might have been better employed. Fatigued with her walk, she went to her own room, and throwing herself on the bed with one of the novels she had brought home, read till it was time to dress for the excursion.

About four o'clock, Mr. Lennard called, and Mary, in the gayest spirits, her really beautiful face beaming with the brightest smiles, and her fine person set off by elaborate dress, the price of many a dessertless dinner, descended to the parlour. Before she left the house, however, she ran back to the nursery to say that she intended to invite Mr. Lennard and a few others to tea, and hoped her mother would make suitable pre-

parations for their entertainment; then flying down stairs, her light laugh was heard long after the door closed on the gay party.

Once more, and without a murmur, Mrs. Wallace laid by her now almost hopeless task, and consigning the poor baby to the tender mercies of half a dozen rude children, the long, bright, beautiful afternoon which her daughter passed abroad, in the midst of mirth and folly, was spent by the weary mother in the precincts of a small, dim kitchen, in the heated, unwholesome atmosphere of a coal stove, preparing a supper, the expense and time of which, necessarily detracted from the home comforts of the rest of her family.

Mrs. Wallace sometimes felt that she had

spent the best years of her life in rearing a child, and without a murmur, Mrs. Wallace laid by her now almost hopeless task, and consigning the poor baby to the tender mercies of half a dozen rude children, the long, bright, beautiful afternoon which her daughter passed abroad, in the midst of mirth and folly, was spent by the weary mother in the precincts of a small, dim kitchen, in the heated, unwholesome atmosphere of a coal stove, preparing a supper, the expense and time of which, necessarily detracted from the home comforts of the rest of her family.

Once more, and without a murmur, Mrs. Wallace laid by her now almost hopeless task, and consigning the poor baby to the tender mercies of half a dozen rude children, the long, bright, beautiful afternoon which her daughter passed abroad, in the midst of mirth and folly, was spent by the weary mother in the precincts of a small, dim kitchen, in the heated, unwholesome atmosphere of a coal stove, preparing a supper, the expense and time of which, necessarily detracted from the home comforts of the rest of her family.

Once more, and without a murmur, Mrs. Wallace laid by her now almost hopeless task, and consigning the poor baby to the tender mercies of half a dozen rude children, the long, bright, beautiful afternoon which her daughter passed abroad, in the midst of mirth and folly, was spent by the weary mother in the precincts of a small, dim kitchen, in the heated, unwholesome atmosphere of a coal stove, preparing a supper, the expense and time of which, necessarily detracted from the home comforts of the rest of her family.

Once more, and without a murmur, Mrs. Wallace laid by her now almost hopeless task, and consigning the poor baby to the tender mercies of half a dozen rude children, the long, bright, beautiful afternoon which her daughter passed abroad, in the midst of mirth and folly, was spent by the weary mother in the precincts of a small, dim kitchen, in the heated, unwholesome atmosphere of a coal stove, preparing a supper, the expense and time of which, necessarily detracted from the home comforts of the rest of her family